

Course descriptions

TABLE OF CONTENTS

1. 3-FOS-803/10 BSc Thesis Supervision.....	2
2. 3-FFP-203/15 Bio-medical Applications of Plasmas and Radiation.....	3
3. 3-FOS-501/15 Completion of PhD Research Project Stage (1).....	4
4. 3-FOS-507/15 Completion of PhD Research Project Stage (2).....	5
5. 3-MXX-101/15 Course of English for PhD Studies (1).....	6
6. 3-MXX-102/15 Course of English for PhD Studies (1).....	7
7. 3-FOS-102/15 Department Seminar (1).....	8
8. 3-FOS-103/15 Department Seminar (2).....	9
9. 3-FOS-104/15 Department Seminar (3).....	10
10. 3-FOS-105/15 Department Seminar (4).....	11
11. 3-FOS-106/15 Department Seminar (5).....	12
12. 3-FOS-107/15 Department Seminar (6).....	13
13. 3-FOS-108/15 Department Seminar (7).....	14
14. 3-FOS-109/15 Department Seminar (8).....	15
15. 3-FOS-990/15 Dissertation Thesis Defense (state exam).....	16
16. 3-FFP-001/00 Experimental Vademecum.....	17
17. 3-FOS-804/15 Guidance of a Project for the Students' Conference.....	19
18. 3-FOS-703/10 Home Project Co-researcher.....	20
19. 3-FOS-101/15 Individual Study of Science and Research Resources (1).....	21
20. 3-FOS-111/15 Individual Study of Science and Research Resources (2).....	22
21. 3-FOS-702/10 International Project Co-researcher.....	23
22. 3-FOSfu-009/14 Introduction to quantum processing of information.....	24
23. 3-FOS-022/15 Laser Processes and Chemical Reactions.....	25
24. 3-FOS-021/10 Laser Spectroscopy.....	26
25. 3-FOS-023/15 New Trends in Laser Application in Surface Modification.....	27
26. 3-FOS-701/10 Obtaining a University Grant.....	28
27. 3-FOS-024/10 Optical Spectroscopy of Gases and Plasma.....	29
28. 3-FOS-950/15 Passing Dissertation Examination (state exam).....	30
29. 3-FOS-008/15 Physics of Ultrashort Pulses.....	31
30. 3-FOS-403/15 Presentation at a Home Conference.....	32
31. 3-FOS-402/15 Presentation at a Home Conference with International Participation.....	33
32. 3-FOS-401/10 Presentation at an International Conference.....	34
33. 3-FOS-305/15 Published Contribution to a Non-reviewed Almanac.....	35
34. 3-FOSfu-007/14 Quantum Optics.....	36
35. 3-FOS-007/15 Quantum Optics.....	37
36. 3-FOS-704/10 Quotation Registered in SCI or SCOPUS.....	38
37. 3-FOS-302/15 Science Thesis in a Current Contents-registered Periodical.....	39
38. 3-FOS-304/15 Science Thesis in a Foreign Reviewed Periodical (Almanac).....	40
39. 3-FOS-303/15 Science Thesis in a Reviewed Periodical (Almanac).....	41
40. 3-FOS-301/15 Science Thesis in an A-category Periodical.....	42
41. 3-FOSfu-008/14 Selected chapters in quantum electronics and optics.....	43
42. 3-FOS-801/15 Supervising and Demonstrating Work (1).....	44
43. 3-FOS-802/15 Supervising and Demonstrating Work (2).....	45
44. 3-FOS-811/15 Supervising and Demonstrating Work (3).....	46
45. 3-FOS-812/15 Supervising and Demonstrating Work (4).....	47
46. 3-FOS-808/10 Writing Diploma Thesis Assessment Protocol.....	48

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KEF/3-FOS-803/10		Course title: BSc Thesis Supervision			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 10					
Recommended semester:					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 0					
A	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0
Lecturers:					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KAFZM/3-FFP-203/15		Course title: Bio-medical Applications of Plasmas and Radiation			
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning, distance learning					
Number of credits: 10					
Recommended semester: 4.					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 9					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. RNDr. Zdenko Machala, PhD.					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KEF/3-FOS-501/15		Course title: Completion of PhD Research Project Stage (1)			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 10					
Recommended semester: 4.					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 10					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers:					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KEF/3-FOS-507/15		Course title: Completion of PhD Research Project Stage (2)			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 10					
Recommended semester: 6.					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 2					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers:					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KJP/3-MXX-101/15		Course title: Course of English for PhD Studies (1)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning, distance learning					
Number of credits: 5					
Recommended semester: 1.					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 50					
A	B	C	D	E	FX
92,0	2,0	0,0	0,0	6,0	0,0
Lecturers: PhDr. Alena Zemanová					
Last change: 22.02.2019					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KJP/3-MXX-102/15		Course title: Course of English for PhD Studies (1)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning, distance learning					
Number of credits: 5					
Recommended semester: 2.					
Educational level: III.					
Prerequisites: FMFI.KJP/3-MXX-101/15 - Course of English for PhD Studies (1)					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 55					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: PhDr. Alena Zemanová					
Last change: 22.02.2019					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KEF/3-FOS-102/15		Course title: Department Seminar (1)			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 5					
Recommended semester: 1.					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 26					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: prof. RNDr. Pavel Veis, CSc.					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KEF/3-FOS-103/15		Course title: Department Seminar (2)			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 5					
Recommended semester: 2.					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 20					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: prof. RNDr. Pavel Veis, CSc.					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KEF/3-FOS-104/15		Course title: Department Seminar (3)			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 5					
Recommended semester: 3.					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 20					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: prof. RNDr. Pavel Veis, CSc.					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KEF/3-FOS-105/15		Course title: Department Seminar (4)			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 5					
Recommended semester: 4.					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 15					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: prof. RNDr. Pavel Veis, CSc.					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KEF/3-FOS-106/15		Course title: Department Seminar (5)			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 5					
Recommended semester: 5.					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 6					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: prof. RNDr. Pavel Veis, CSc.					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KEF/3-FOS-107/15		Course title: Department Seminar (6)			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 5					
Recommended semester: 6.					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 4					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: prof. RNDr. Pavel Veis, CSc.					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KEF/3-FOS-108/15		Course title: Department Seminar (7)			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 5					
Recommended semester: 7.					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 6					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: prof. RNDr. Pavel Veis, CSc.					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KEF/3-FOS-109/15		Course title: Department Seminar (8)			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 5					
Recommended semester: 8.					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 4					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: prof. RNDr. Pavel Veis, CSc.					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

STATE EXAM DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFL.KEF/3-FOS-990/15	Course title: Dissertation Thesis Defense
Number of credits: 30	
Recommended semester: 7., 8..	
Educational level: III.	
State exam syllabus:	
Last change: 02.06.2015	
Approved by: RNDr. Eva Majková, DrSc.	

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KAFZM/3-FFP-001/00		Course title: Experimental Vademecum			
Educational activities: Type of activities: lecture Number of hours: per week: 4 per level/semester: 56 Form of the course: on-site learning, distance learning					
Number of credits: 10					
Recommended semester: 1.					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus: Measurement of RF and pulse current (Rogowski coil, frequency compensation of shunts, etc.). Compensation of parasitic capacitance currents. Measurement of RF and pulse voltage (voltage dividers and oscilloscope probes). Waves on coaxial cables (speed of propagation, characteristic impedance and impedance match). Measuring of tiny currents down to femtoampere (solid-state and vibrating reed electrometers, the noise behaviour). Digital oscilloscopes, sampling oscilloscopes and image converter cameras. Evaluation of slowly changing signals (sampling and incremental amplifiers, and signal processing). Measuring of electrical quantities under extreme conditions (e.g. under high voltage), optoelectronic couplers. The principles of switching voltage regulator, current sources and current mirrors. Electromagnetic interference in experiments (RF interference, coupling paths, inductive coupling, filtering and proper grounding). Electrostatic and magnetic shielding. Rejecting of electrical noise by current loops. Transistor overload protection methods for switching applications (switching of inductive and capacitive reactance).					
Recommended literature: Schwab A. J.: Hochspannungs Messtechnik, Messgeräte und Messverfahren, Springer-Verlag, Heidelberg 1981 (ruský preklad: Izmerenija na vysokom naprjaženii, Energoatomizdat, Moskva 1983). Seifart M.: Analoge Schaltungen, VEB Verlag Technik, Berlin 1987.					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 20					
A	B	C	D	E	FX
85,0	10,0	5,0	0,0	0,0	0,0

Lecturers: doc. RNDr. Karol Hensel, PhD., doc. RNDr. Mário Janda, PhD., doc. RNDr. Zdenko Machala, PhD., Mgr. Peter Čermák, PhD.
Last change: 02.06.2015
Approved by: RNDr. Eva Majková, DrSc.

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KEF/3-FOS-804/15		Course title: Guidance of a Project for the Students' Conference			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 7					
Recommended semester:					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 1					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers:					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KEF/3-FOS-703/10		Course title: Home Project Co-researcher			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 10					
Recommended semester:					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 13					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers:					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KEF/3-FOS-101/15		Course title: Individual Study of Science and Research Resources (1)			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 10					
Recommended semester: 1.					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 29					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers:					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KEF/3-FOS-111/15		Course title: Individual Study of Science and Research Resources (2)			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 10					
Recommended semester: 2.					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 8					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers:					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFLKEF/3-FOS-702/10		Course title: International Project Co-researcher			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 15					
Recommended semester:					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 5					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers:					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KEF/3-FOSfu-009/14		Course title: Introduction to quantum processing of information			
Educational activities: Type of activities: seminar Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning					
Number of credits: 10					
Recommended semester: 1.					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 0					
A	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: prof. RNDr. Vladimír Bužek, DrSc.					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KEF/3-FOS-022/15		Course title: Laser Processes and Chemical Reactions			
Educational activities: Type of activities: course Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning, distance learning					
Number of credits: 5					
Recommended semester: 3.					
Educational level: III.					
Prerequisites:					
Antirequisites: FMFI.KEF/3-FOS-022/10					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 5					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: Dr. Alicia Marín Roldán, prof. RNDr. Pavel Veis, CSc.					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KEF/3-FOS-021/10		Course title: Laser Spectroscopy			
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning, distance learning					
Number of credits: 10					
Recommended semester: 1.					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 18					
A	B	C	D	E	FX
94,44	5,56	0,0	0,0	0,0	0,0
Lecturers: doc. RNDr. Mário Janda, PhD., prof. RNDr. Pavel Veis, CSc.					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KEF/3-FOS-023/15		Course title: New Trends in Laser Application in Surface Modification			
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning, distance learning					
Number of credits: 5					
Recommended semester: 4.					
Educational level: III.					
Prerequisites:					
Antirequisites: FMFI.KEF/3-FOS-023/10					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 4					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. RNDr. Anna Zahoranová, PhD.					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KEF/3-FOS-701/10		Course title: Obtaining a University Grant			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 20					
Recommended semester:					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 16					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers:					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KEF/3-FOS-024/10		Course title: Optical Spectroscopy of Gases and Plasma			
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning, distance learning					
Number of credits: 10					
Recommended semester: 2.					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 18					
A	B	C	D	E	FX
77,78	16,67	5,56	0,0	0,0	0,0
Lecturers: prof. RNDr. Pavel Veis, CSc.					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

STATE EXAM DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFL.KEF/3-FOS-950/15	Course title: Passing Dissertation Examination
Number of credits: 20	
Recommended semester: 3., 4..	
Educational level: III.	
State exam syllabus:	
Last change: 02.06.2015	
Approved by: RNDr. Eva Majková, DrSc.	

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KEF/3-FOS-008/15		Course title: Physics of Ultrashort Pulses			
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning, distance learning					
Number of credits: 5					
Recommended semester: 3.					
Educational level: III.					
Prerequisites:					
Antirequisites: FMFI.KEF/3-FOS-008/10					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 15					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. RNDr. Mário Janda, PhD., Dr. rer. nat. Peter Šiffalovič, PhD.					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KEF/3-FOS-403/15		Course title: Presentation at a Home Conference			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 8					
Recommended semester:					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 1					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers:					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KEF/3-FOS-402/15		Course title: Presentation at a Home Conference with International Participation			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 10					
Recommended semester:					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 7					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers:					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KEF/3-FOS-401/10		Course title: Presentation at an International Conference			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 20					
Recommended semester:					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 37					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers:					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFLKEF/3-FOS-305/15		Course title: Published Contribution to a Non-reviewed Almanac			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 7					
Recommended semester:					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 9					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers:					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KEF/3-FOSfu-007/14		Course title: Quantum Optics			
Educational activities: Type of activities: seminar Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning					
Number of credits: 10					
Recommended semester: 4.					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 0					
A	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: prof. RNDr. Vladimír Bužek, DrSc.					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KTF/3-FOS-007/15		Course title: Quantum Optics			
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning, distance learning					
Number of credits: 5					
Recommended semester: 2.					
Educational level: III.					
Prerequisites:					
Antirequisites: FMFL.KTFDF/3-FOS-007/10					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 0					
A	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: prof. RNDr. Anna Dubníčková, DrSc., doc. RNDr. Tomáš Blažek, PhD.					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFLKEF/3-FOS-704/10		Course title: Quotation Registered in SCI or SCOPUS			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 4					
Recommended semester:					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 4					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers:					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KEF/3-FOS-302/15		Course title: Science Thesis in a Current Contents-registered Periodical			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 30					
Recommended semester:					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 7					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers:					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KEF/3-FOS-304/15		Course title: Science Thesis in a Foreign Reviewed Periodical (Almanac)			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 20					
Recommended semester:					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 2					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers:					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KEF/3-FOS-303/15		Course title: Science Thesis in a Reviewed Periodical (Almanac)			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 15					
Recommended semester:					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 4					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers:					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KEF/3-FOS-301/15		Course title: Science Thesis in an A-category Periodical			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 35					
Recommended semester:					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 18					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers:					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KEF/3-FOSfu-008/14		Course title: Selected chapters in quantum electronics and optics			
Educational activities: Type of activities: seminar Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning					
Number of credits: 10					
Recommended semester: 1.					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 0					
A	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: prof. Ing. Štefan Luby, DrSc.					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KEF/3-FOS-801/15		Course title: Supervising and Demonstrating Work (1)			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 4					
Recommended semester: 1.					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 22					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers:					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KEF/3-FOS-802/15		Course title: Supervising and Demonstrating Work (2)			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 4					
Recommended semester: 2.					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 22					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers:					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KEF/3-FOS-811/15		Course title: Supervising and Demonstrating Work (3)			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 4					
Recommended semester: 3.					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 4					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers:					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KEF/3-FOS-812/15		Course title: Supervising and Demonstrating Work (4)			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 4					
Recommended semester: 4.					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 3					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers:					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					

COURSE DESCRIPTION

University: Comenius University in Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFLKEF/3-FOS-808/10		Course title: Writing Diploma Thesis Assessment Protocol			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning, distance learning					
Number of credits: 4					
Recommended semester:					
Educational level: III.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 0					
A	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0
Lecturers:					
Last change: 02.06.2015					
Approved by: RNDr. Eva Majková, DrSc.					